

Post-Patch 50 APIs

Effective with MailMan V. 7.1 with Patch XM*7.1*50 new APIs have been created. These APIs are similar to VA FileMan APIs, and enable other front ends (e.g., GUI) to be written for MailMan. Where possible, existing MailMan code has been altered to use these APIs.

User Setup (^XMOVITAE)

- INIT Sets up vital user information and should *not* be used for any other purpose.
- OTHER Change certain MailMan settings when the user becomes a surrogate.
- SELF Restore certain MailMan settings when the user becomes himself or herself again, after having been a surrogate.

Message Actions (^XMXAPI)

- ANSRMSG Answer a message (Send a new message, with a copy of the original message to the sender of the original message).
- DELMSG Delete messages from a basket
- FLTRMSG Filter messages in a basket.
- FWDMSG Forward messages from a basket.
- LATERMSG "Later" messages in a basket.
- MOVEMSG Move messages (from one basket) to another basket.
- PRTMSG Print messages.
- PUTSERV Put a message in a server basket.
- REPLYMSG Reply to message (Attach reply to original message).
- SENDBULL Send a bulletin (returns XMZ).
- SENDMSG Send a message.
- TASKBULL Send a bulletin (quicker than SENDBULL, but does *not* return XMZ).
- TERMMSG Terminate messages, possibly from a basket.
- ZAPSERV Delete a message from a server basket.

Message Action Building Blocks (^XMXAPI)

- ADDRNSND Address and send a message (does *not* handle message body).
- CRE8XMZ Create a new message stub in the MESSAGE file (#3.9).
- TOWHOM Check one message addressee.
- VSUBJ Validate a subject.

Mailbox Actions (^XMXPB)

- CRE8MBOX Create a mailbox for a user.
- FLTRMBOX Filter all messages in a user's mailbox.
- QMBOX Query a mailbox for new messages.
- TERMMBOX Remove all traces of a user from MailMan globals.

Basket Actions (^XMXPB)

- CRE8BSKT Create a basket.
- DELBSKT Delete a user's basket.
- FLTRBSKT Filter messages in a basket.
- LISTBSKT Get a list of baskets in a mailbox.
- LISTMSGs Get a list of messages in one or all baskets in a mailbox. Search criteria can be used.
- NAMEBSKT Change the name of a basket.
- QBSKT Get information on a basket.
- RSEQBSKT Resequene messages in a basket.

Mail Group Functions and Actions (^XMXPB)

- \$\$GOTLOCAL Determine if a mail group has *active* local members.

Interactive User Options/Actions (^XM & ^XMXPB)

^XM

- EN Meant to be the entry action of the primary MailMan option. It sets up the user's MailMan environment and calls HEADER^XM to greet the user.
- CHECKIN Meant to be the entry action of any subordinate MailMan option.
- CHECKOUT Meant to be the exit action of every MailMan option.
- HEADER Meant to be part of the entry action of the primary MailMan option, whether called by itself or as part of another call (e.g., EN^XM). It displays a greeting to the user.

^XMXAPIU

- READ Read/Manage messages in your mailbox.
- READNEW Read new messages in your mailbox.
- SEND Send a message.
- TOWHOM Ask user for message addressees.

Message Editing Routines (^XMXEDIT)

- CLOSED Toggle the message's "closed" flag.
- CONFID Toggle the message's "confidential" flag.
- CONFIRM Toggle the message's "confirm receipt requested" flag.
- DELIVER Set/Delete the message delivery basket for all users.
- INFO Toggle the message's "information only" flag.
- PRIORITY Toggle the message's "priority" flag.
- SUBJ Change the message subject.
- TEXT Replace the message text.
- VAPOR Set/Delete the message vaporize date.

Message Security and Restrictions Functions and Routines (^XMXSEC)

- \$\$ACCESS Returns whether the user may access a message.
- \$\$ANSWER Returns whether the user may answer a message.
- \$\$BCAST Returns whether a message was broadcast.
- \$\$CLOSED Returns whether a message is closed.
- \$\$CONFID Returns whether a message is confidential.
- \$\$CONFIRM Returns whether a message is confirm receipt requested.
- \$\$COPY Returns whether the user may copy a message.
- \$\$DELETE Returns whether the user may delete or terminate a message.
- \$\$FORWARD Returns whether the user may forward a message.
- \$\$INFO Returns whether a message is information only.
- \$\$LATER Returns whether the user may later a message.
- \$\$MOVE Returns whether the user may save or filter a message.
- \$\$ORIGIN8R Returns whether the user (XMDUZ or DUZ) sent the message (sender or surrogate).

- **\$\$POSTPRIV** Returns whether the user has Postmaster privileges, including whether the user may perform group message actions in SHARED,MAIL.
- **\$\$PRIORITY** Returns whether a message is priority.
- **\$\$READ** Returns whether the user may read a message.
- **\$\$REPLY** Returns whether the user may reply to a message.
- **\$\$RPRIV** Returns whether the surrogate has READ privileges.
- **\$\$RWPRIV** Returns whether the surrogate has READ or WRITE privileges.
- **\$\$SEND** Returns whether the user may send a message.
- **\$\$SURRACC** Returns whether the surrogate may access a message.
- **\$\$SURRCONF** Returns whether a message is confidential, and if it is, whether the surrogate may access it.
- **\$\$WPRIV** Returns whether the surrogate has WRITE privileges.
- **\$\$ZCLOSED** Returns whether a message is closed.
- **\$\$ZCONFID** Returns whether a message is confidential.
- **\$\$ZCONFIRM** Returns whether a message is confirm receipt requested.
- **\$\$ZINFO** Returns whether a message is information only.
- **\$\$ZORIGIN8** Returns whether the user (XMDUZ or DUZ) sent the message (sender or surrogate).
- **\$\$ZPOSTPRV** Returns whether the user has Postmaster privileges, including whether the user may perform group message actions in SHARED,MAIL.
- **\$\$ZPRI** Returns whether a message is priority.

Message Security and Restrictions Functions and Routines (^XMXSEC1)

- **\$\$COPYAMT** When copying a message, this function checks the total number of lines and responses to be copied.
- **\$\$COPYLIMS** When copying a message, this function returns the sites message copy limits.
- **\$\$COPYRECP** When copying a message, this function checks the total number of recipients on the message to see if it's "OK" to list them in the copy text and also send the copy to them.
- **\$\$PAKMAN** Returns whether a message is a PackMan message.
- **CHKLINES** Checks whether the message is too long to be sent to a remote site.
- **CHKMSG** Checks whether a message is located where the calling routine says it is and whether the user may access it.
- **GETRESTR** Returns assorted restrictions, if any, on sending or forwarding the message.
- **OPTGRP** Determines what the user may do at the basket or message group level.

Message Security and Restrictions Functions and Routines (^XMXSEC2)

- **\$\$EDIT** Returns whether the user may edit a message.
- **OPTEDIT** If OPTMSG^XMXSEC2 determines that the user may edit the message, then this routine details what exactly the user may and may not edit.
- **OPTMSG** Determines what the user may do with the message.

Message and Mailbox Utility Functions and Routines (^XMXUTIL)

- **\$\$BMSGCT** Returns the number of messages in a user's basket.
- **\$\$BNMSGCT** Returns the number of new messages in a user's basket.
- **\$\$BSKTNAME** Returns the name of a user's basket.
- **\$\$NAME** Returns the name of the user by looking up XMDUZ in the NEW PERSON file (#200). Optionally, it may also return the user's title and/or institution.
- **\$\$NETNAME** Returns the network name of a user, including the @site name.
- **\$\$NEWS** Returns the information on new messages in a user's mailbox.
- **\$\$TMSGCT** Returns the total number of messages in a user's mailbox.
- **\$\$TNMSGCT** Returns the total number of new messages in a user's mailbox.
- **KVAPOR** Sets/Removes a message vaporize date in a user's basket.
- **LASTACC** Records that the user has read the message.
- **MAKENEW** Makes a message new and updates the new message counts.
- **NONEW** Makes a message *not* new and updates the new message counts.
- **PAGE** Displays to the user: "Enter RETURN to continue or '^' to exit:" and waits until the user presses a key.
- **WAIT** Displays to the user: "Press RETURN to continue:" and waits until the user presses a key.

Date and String Utility Functions and Routines (^XMXUTIL1)

- **\$\$CONVERT** Given the Internet date/time string, it returns the VA FileMan date/time.
- **\$\$CTRL** Strips the control characters from a string.
- **\$\$DECODEUP** Change all ~U~ to ^ in a string.
- **\$\$ENCODEUP** Change all ^ to ~U~ in a string.
- **\$\$GMTDIFF** Given the time zone, it returns +-**hhmm** difference from Greenwich Mean Time (GMT).




- **\$\$INDT** Given the VA FileMan date/time, it returns the Internet date/time string: **dd mm yyy hh:mm:ss +-hhmm (time zone)**.
- **\$\$MAXBLANK** Reduce all three or more consecutive blanks in a string to two.
- **\$\$MELD** Combine a string and a number to form a new string of a given length.
- **\$\$MMDT** Given the VA FileMan date/time, it returns the string: **dd mmm yy hh:mm**.
- **\$\$SCRUB** Strips the control characters and leading/trailing blanks from a string.
- **\$\$STRIP** Strips the leading/trailing blanks from a string.
- **\$\$TIMEDIFF** Given the decimal time difference, it returns **+-hhmm** (e.g. -2.5 equates to -0230).
- **\$\$TSTAMP** Returns a timestamp (**\$H** expressed in seconds).
- **ZONEDIFF** Given the time zone (or time difference **+-hhmm** from GMT), it returns the number of hours and minutes difference between that and the local time zone.

Message Information Functions and Routines (^XMXUTIL2)

- **\$\$BSKT** Returns in which basket a message is located for a user.
- **\$\$DATE** Returns the message sent date in external format: **DD MMM YY HHJ:MM**.
- **\$\$FROM** Returns the message from in external format.
- **\$\$KSEQN** Returns the sequence number for a message in this user's basket.
- **\$\$LINE** Returns the number of lines in the text of a message.
- **\$\$NEW** Returns whether the message is new for this user in this basket.
- **\$\$PRI** Returns whether the message is priority.
- **\$\$QRESP** Determines whether a message is a response or not.
- **\$\$RESP** Returns the number of responses to a message.
- **\$\$SUBJ** Returns the message subject in external format.
- **\$\$ZDATE** Returns the message sent date in external format: **DD MMM YY HHJ:MM**.
- **\$\$ZFROM** Returns the message from in external format.
- **\$\$ZNODE** Returns the message zero node: **^XMB(3.9,XMZ,0)**.
- **\$\$ZPRI** Returns whether the message is priority.
- **\$\$ZREAD** Returns the number of responses to a message this user has read.
- **\$\$ZSUBJ** Returns the message subject in external format.
- **INMSG** Message information.



Should only be called for messages, not for responses.

- INMSG1 Message information, Part 1.
 *Should only be called for messages, not for responses.*
- INMSG2 Message information, Part 2.
 *Should only be called for messages, not for responses.*
- INRESP Response information.
 *Should only be called for responses, not for messages.*
- INRESPS How many responses? What's the user read?

Message Information Routines (^XMXUTIL3)

- Q Lists/Finds message addressees.
- QD Lists/Finds message recipients.
- QL Lists/Finds "latered" message addressees.
- QN Get the network header records from a message that originated at a remote site.

